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INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

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Applicant's or agent's file reference sps.2619.oct.ac.i	FOR FURTHER ACTION	Preliminary Ex	on of Transmittal of International camination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)
PCT/GB 03/05337	08.12.2003		09.12.2002
International Patent Classification (IPC) or b	oth national classification and IPC		
E21B37/00			
221201700			
Applicant		t _1	
SPECIALISED PETROLEUM SER	VICES GROUP LIMITED &	t ai	
1. This international preliminary exa	amination report has been prep	ared by this Int	ernational Preliminary Examining
Authority and is transmitted to th	e applicant according to Article	36.	
			•
The second secon	of 7 shoots including this cov	ver sheet	
2. This REPORT consists of a total	or / streets, including this cov	or oncor.	
☐ This report is also accomp	anied by ANNEXES, i.e. sheet	s of the descrip	tion, claims and/or drawings which have
hoon amended and are the	hasis for this report and/or sn	eets containing	rectifications made before this Admonty
(see Rule 70.16 and Section	on 607 of the Administrative Ins	Silucions unde	Tule 1 01).
These annexes consist of a tota	of sheets.		
		•	
3. This report contains indications	relating to the following items:		
│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │			
	of opinion with regard to novelty	v. Inventive ster	and industrial applicability
		,,	
IV Lack of unity of inve	t under Bulg 66 2(a)(ii) with rec	nard to noveity.	inventive step or industrial applicability;
V 🖾 Reasoned statemen	ations supporting such stateme	ent	
VI Certain documents			
VII Certain defects in th	e international application		
	s on the international application	on	
Date of submission of the demand	Dat	e of completion o	f this report
Date of submission of the demand			
02.07.2004 14.01.2005			
02.07.2004 14.01.2005			
Name and mailing address of the international Authorized Officer			.nus Potent.
preliminary examining authority:			Septem Mily
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/05337

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	ription, Pages					
	1-13		as originally filed				
	Clair	ns, Numbers					
	1-23		as originally filed				
	Drav	vings, Sheets					
	1/3-3	3/3	as originally filed				
2.	With lang	Vith regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ilable or furnished to this Authority in the following language: , which is:				
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of public	cation of the international application (under Rule 48.3(b)).				
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under				
3.	With	n regard to any nucle o rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inter	national application in written form.				
			e international application in computer readable form.				
		furnished subsequen	tly to this Authority in written form.				
		furnished subsequen	tly to this Authority in computer readable form.				
		in the international a	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/05337

5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement sheet contain report.)	ing sud	ch amendme	nts must be referred to under item 1 and annexed to this		
6.	Add	ditional observations, if necessary	/:				
					, inventive step and industrial applicability		
1.	The	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- povious), or to be industrially applicable have not been examined in respect of:					
		the entire international application	on,		•		
		claims Nos.					
		because:					
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	×	College and a series of a series of the seri					
		see separate sheet					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the said claims Nos.					
2	or	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
		\beth the written form has not been furnished or does not comply with the Standard.					
		the computer readable form has not been furnished or does not comply with the Standard.					
١	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1		tatement					
	N	ovelty (N)	Yes: No:	Claims Claims	6-9,17-18 1-5,10-16,20-23,		
	lr	nventive step (IS)	Yes: No:	Claims Claims	6-7 1-5,8-23,		
	ir	ndustrial applicability (IA)	Yes: No:	Claims Claims	1-23		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/05337

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Reference is made to the following documents:

D1: US 2002/162655 A1 D2: US-B1-6 431 273

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 19 does not specify explicitly and univocally any technical feature, and 111-1 can therefore not be examined. Furthermore, said claim is presented in a way that leaves the reader in doubt as to its alternative dependencies. See also the PCT Guidelines PCT/GL/ISPE/1, 5.18.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The document D1 is regarded as being the closest prior art to the subject-V-1 matter of claim 1, and discloses (the references in parentheses applying to this document):

> A downhole tool for use in a cased or lined well bore (fig. 3a, 4a), the tool comprising a body (66) connectable in a work string, a fluid flow path (72) through the tool body (66) and a barrier (74) located at an outer surface (90) of the tool (66), wherein the barrier (74) is actuable to control fluid flow passing the tool (66) and selectively divert fluid flow through the flow path (paragraph 19).

> The subject-matter of claim 1 is therefore not new contrary to the provisions of Article 33(2) PCT.

Furthermore, D1 discloses the additional subject-matter of the following V-2 dependent claims:

Claim 2:

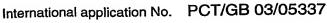
see paragraph 19, lines 4-6.

Claims 3-5:

see paragraph 19, lines 9-10.

Claim 10-13:

see fig. 3b, screen 80.



EXAMINATION REPORT - SEPARATE SHEET

The subject-matter of said claims is therefore not new (Article 33(2) PCT).

- The combination of the features of either of dependent claims 6 and 7 is nei-V-3 ther known from, nor rendered obvious by, the available prior art which only shows resilient members which shape are changeable due to the influence of a second substance and not due to the composition of the resilient member it self. See for instance D2, item 44, where a membrane is inflated by means of fluid. Said claims therefore involve an inventive step according to Article 33(3) PCT.
- The subject-matter of dependent claims 8 and 9 relate only to normal design V-4 possibilities such that no inventive step is involved in the solution of the related underlying problems of said claims (Article 33(3) PCT). It is very well know to the skilled man in the industry to utilise ball valves, including balls which are dropped to land on a seat in a downhole tool.
- Independent tool claim 14 relate effectively to the same subject-matter as V-5 claim 1. Claim 14 does therefore also not meet the requirements of Article 33(2) PCT.
- Furthermore, D1 discloses the additional subject-matter of the following V-6 claims dependent upon claim 14:

see fig. 3b, item 80. Claim 15:

see fig. 1e, item 25. Claim 16:

The subject-matter of said claims is therefore not new (Article 33(2) PCT).

- The subject-matter of dependent claims 17 and 18 relate only to normal V-7 design possibilities such that no inventive step is involved in the solution of the related underlying problems of said claims (Article 33(3) PCT). See for instance D2, fig. 5, item 44.
- Independent method claim 20 relates effectively to the same subject-matter **V-8** as independent claim 1 and does therefore also not meets the requirements of Article 33(2) PCT.

- V-9 What has been said about the previous dependent tool claims 10-13 applies, mutatis mutandis, also to dependent method claims 21-23. The subject-matter of said claims is therefore also not new (Article 33(2) PCT).
- V-10 Furthermore, the following deficiencies are pointed out:
 - The independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
 - The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
 - Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1, D2 is not mentioned in the description, nor are these documents identified therein.
 - To satisfy the conciseness requirement or Article 6 PCT, the present set of claims should include only the minimum necessary number of independent claims in any one category. Said requirement is not satisfied by independent claims 1 and 14, as in the present case, it is considered appropriate to use only one independent claim in any one category.